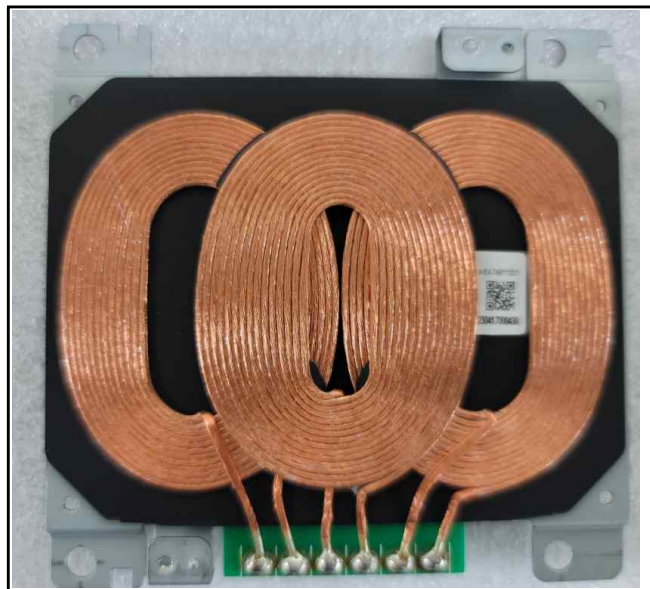


FOR APPROVAL

CUSTOMER : BH EVS
P/N : STELLANTIS
MATERIAL : MnZn
MODEL : WTST-085-60-4R2(STLA)
DATE : 03. AUG. 2023
REVISION - 2.2



PREPARED BY	CHECKED BY	APPROVED BY
K. S. LEE	J. R. SON	J. H. KANG



TODA ISU CORPORATION

HEAD OFFICE & FACTORY : MUNMAKGONGDAN-GIL 236, MUNMAK-EUP, WONJU-SI KANGWON-DO, KOREA
FAX : 82-33-7301-888, TEL : 82-33-7301-700 HOME PAGE : <http://www.toda-isu.com/>

개정 이력

ISSUE	DATE	PAGE	DETAILS OF ALTERATION
0	2023.08.05		ISSUE

SPECIFICATIONS

Material	MnZn	CORE Type	PT 6043(1.4T)
Spec Rev.	1.0	Drwg Rev.	2.0

1. Electromagnetic specifications

Electrical Data & Test conditions	Inductance (L)		RESISTANCE	
	BOTTOM COIL	TOP COIL	BOTTOM COIL	TOP COIL
Values 	11.5uH± 10%	12.5uH± 10%	120mΩ – MAX	
Value With JIG	11.5uH± 10%	12.5uH± 10%	120mΩ – MAX	
Temperature	25℃ ± 2℃			
Test equipment	HP-4284A LCR METER OR EQUIVALENT EQUIPMENT			
Test frequency	100 kHz			
Test voltage	1 V			

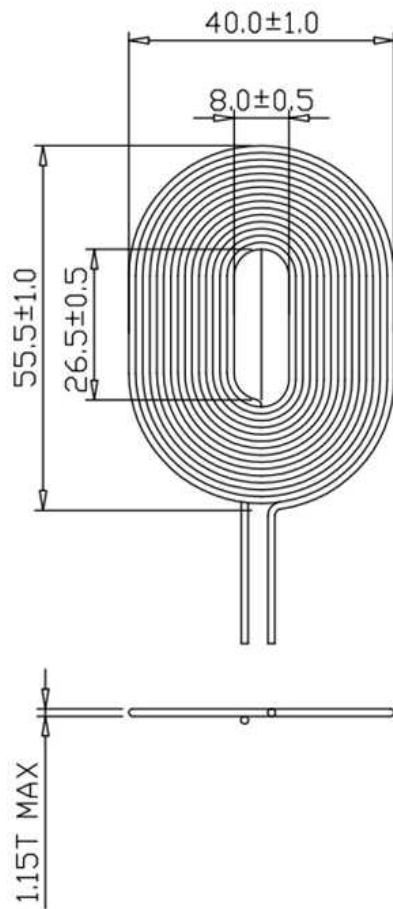
2. Temperature Characteristics.

NO	Parameter	Specification
1	Operating Temperature	-40 ~ 120℃
2	Storage Temperature	-40 ~ 80℃

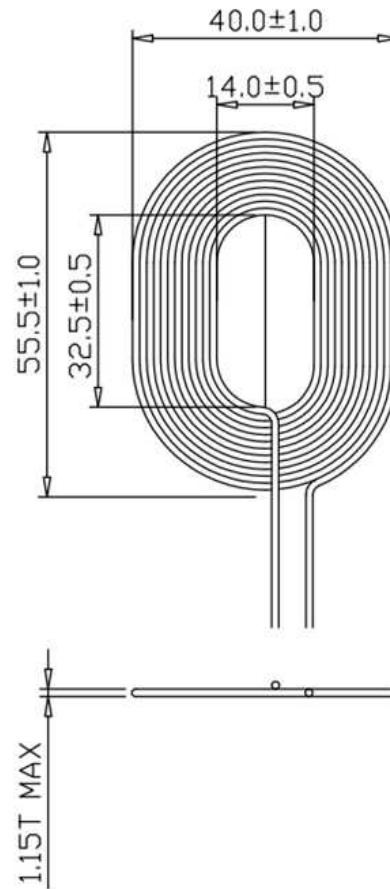
MATERIAL LIST

No.	Part Name.	Dimension & type	Manufacture	Color
1	Ferrite	MnZn PT 6443	TODAI SU or Equipment	Black
2	COIL	Litz Wire 0.08*105strands (155℃ class) Smartbonding	Electrysolar or ZHUHAI WEIHAN CO., LTD	
3	PET FILM	50um (KJ5225BBS or equivalent)	KOOKJE LATEK/ HUIZHOU CITY HUI KE DA TECHNOLOGY CO. LTD	Black
4	Bottom tape	CROWN #512 /3M 9183 / ADH 0.15T	ZHONG SHAN CROWN ADH PRODUCTS CO. LTD / 3M	White
5	BOND	EPOXY SW-300Bk(FC)	SUNGWOO ES	Black
6	Coil ADH tape	double-sided pressure-sensitive adhesive tape	SHEN ZHEN NIKTO TAPE NEW MATERIAL CO.,LTD	Colorless
		7972	MEIYU PACKING MATERIAL CO., LTD	Colorless
7	SOLDER	Lead Free Solder Bar	SEOUL ALLOYMETAL. HEESUNG MATERIAL	Silver
8	PIN SOLDER	Lead Free Solder Line (Cu 0.7)	shenzhen Yongjia Run Metal Co. LTD HEESUNG MATERIAL	Silver
9	BRACKET	SECC 0.8T	JINGXIN 精鑫电子科技（惠州） 有限公司	Silver
10	HEADER PIN	10 8150 012 000 801+ 2.54PITCH 12 PIN	KYOCERA KOREA ., LTD	Silver
11	PCB	FR4-35.5*10.5-1.0T	Dongguan Zhonghai Electronics Co., LTD	Black

COIL SPECIFICATIONS



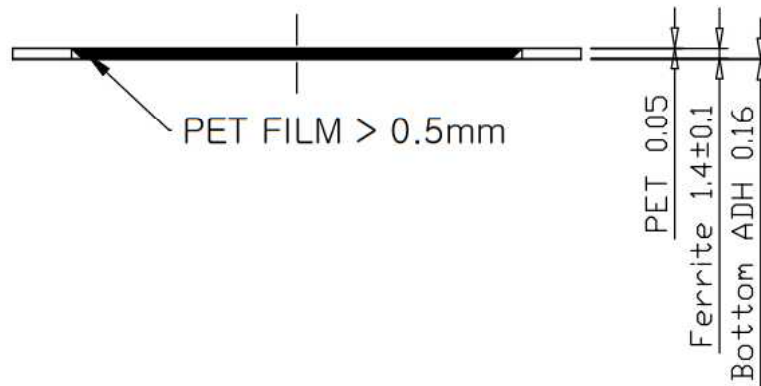
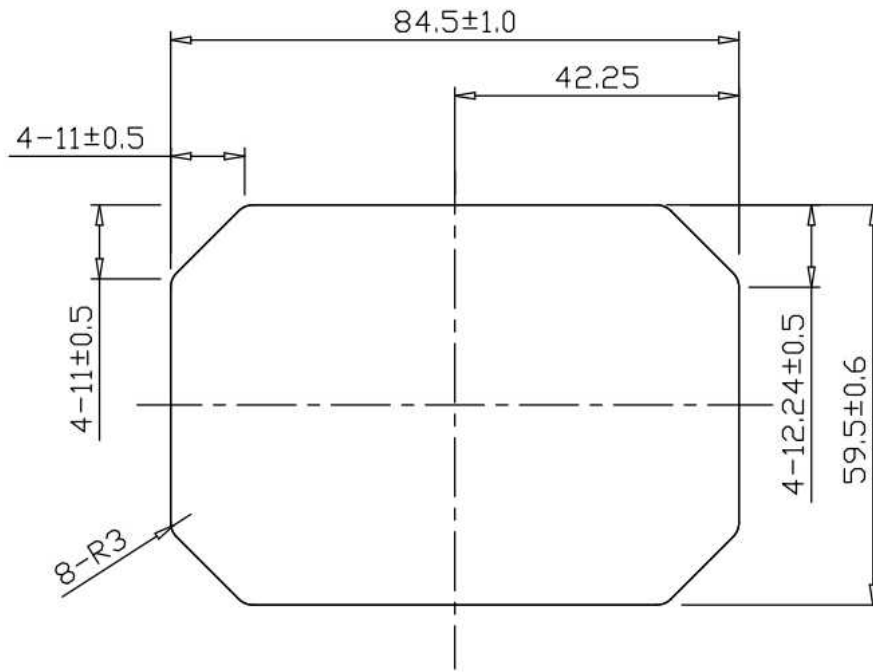
TOP COIL :
Smartbonding Litz WIRE
0.08*105P _ 15Ts



BOTTOM COIL :
Smartbonding Litz WIRE
0.08*105P _ 12Ts

MARK	DATE	DATAIL OF REVISION	CHECKED	APPROVED
APPROVED	2022.04.03	J.R.SON	COIL TODA ISU Corporation	
CHECKED	2022.04.03	J.R.SON		
DESIGNED	2022.04.03	J.R.SON		
DRAWING	2020.03.12	J.R.SON		
SCALE N.S	MAT'L	SIZE	DWG Rev. 2.0	

SHIELD SPECIFICATIONS



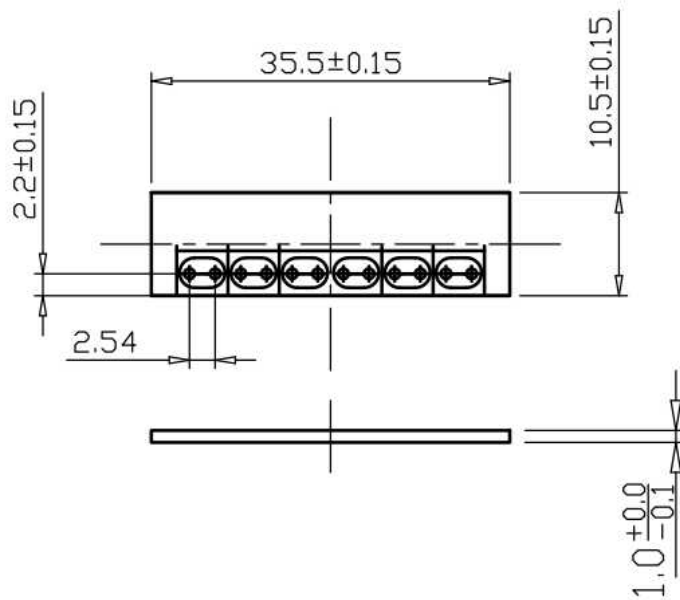
NOTE.

Ferrite : MnZn 1.4T

PET : 0.05T _ PCB 방향 페라이트 측면을 덮을 것

MARK	DATE	DETAIL OF REVISION	CHECKED	APPROVED
APPROVED	2023.07.30	J.R.SON	TITLE PT 6043(PET,ADH) 	
CHECKED	2023.07.30	J.R.SON		
DESIGNED	2023.03.18	K.S.LEE		
DRAWING	2023.03.18	K.S.LEE		
SCALE N.S	MAT'L	SIZE		
		DWG Rev.	0.1	

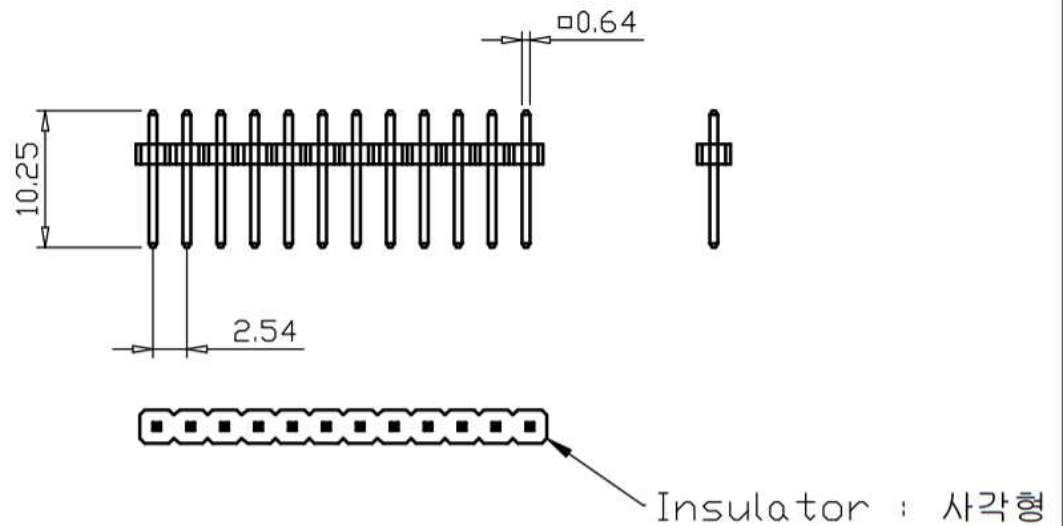
PCB SPECIFICATIONS



NOTE.
PCB : FR4

MARK	DATE	DETAIL OF REVISION	CHECKED	APPROVED
APPROVED	2023.07.30	J.R.SON	TITLE PCB TODA ISU Corporation	
CHECKED	2023.07.30	J.R.SON		
DESIGNED	2023.03.18	K.S.LEE		
DEAWN	2023.03.18	K.S.LEE		
SCALE N.S	MAT'L	SIZE	DWG Rev. 1.0	

HEADER PIN SPECIFICATIONS

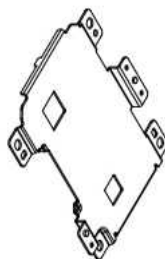


NOTE.
KYOCERA 10 8150 012 000 801+

MARK	DATE	DETAIL OF REVISION	CHECKED	APPROVED
APPROVED	2023.03.18	J.R.SON	TITLE HEADER PIN	
CHECKED	2023.03.18	J.R.SON		
DESIGNED				
DRAWING			TODA ISU Corporation	
SCALE N.S	MAT'L	SIZE		
			DWG Rev.	0.1

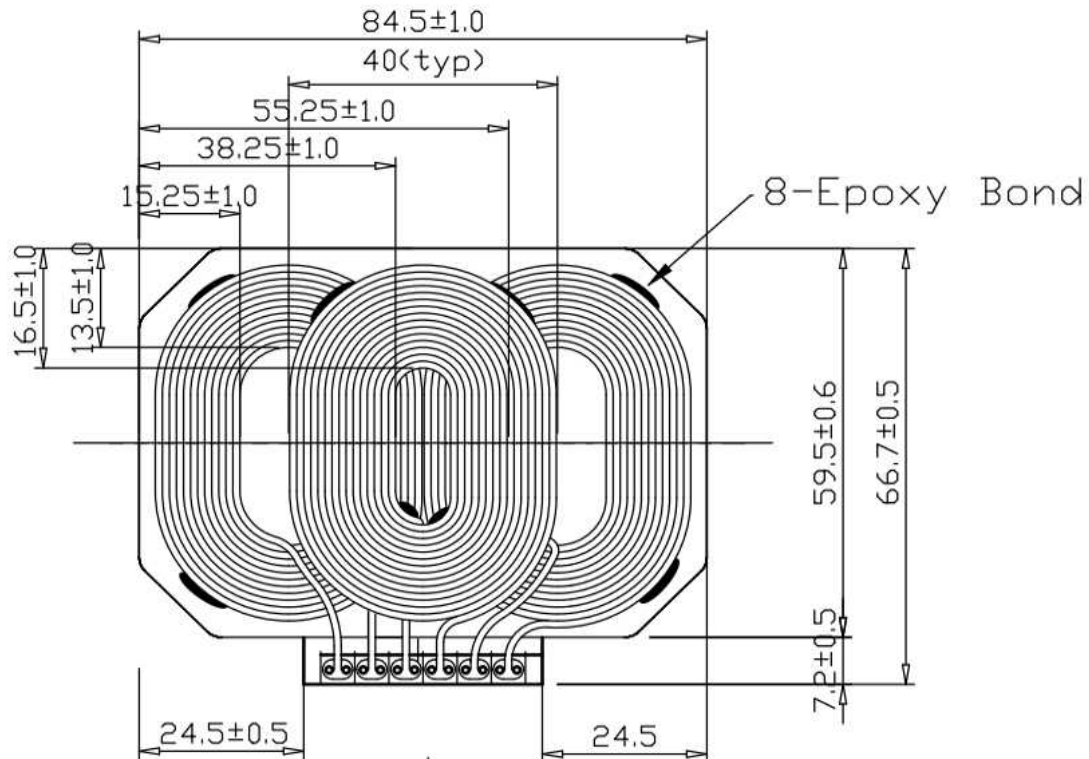
– 9 –

1



8. 이 프로그램은 4개의 데이터 레코드를 생성하며, 각각은 10개의 0-1000 범위의 랜덤한 정수 값을 포함하고 있습니다. 이 프로그램은 4개의 레코드에 대해 각각의 10개의 정수 값을 더하고, 그 결과를 출력합니다.
 9. 다음 코드를 사용하여 프로그램의 실행을 중지하십시오.
 10. 다음 코드를 사용하여 프로그램의 실행을 중지하십시오.
 11. 다음 코드를 사용하여 프로그램의 실행을 중지하십시오.
 12. 다음 코드를 사용하여 프로그램의 실행을 중지하십시오.
 13. 다음 코드를 사용하여 프로그램의 실행을 중지하십시오.
 14. 다음 코드를 사용하여 프로그램의 실행을 중지하십시오.
 15. 다음 코드를 사용하여 프로그램의 실행을 중지하십시오.
 16. 다음 코드를 사용하여 프로그램의 실행을 중지하십시오.
 17. 다음 코드를 사용하여 프로그램의 실행을 중지하십시오.
 18. 다음 코드를 사용하여 프로그램의 실행을 중지하십시오.
 19. 다음 코드를 사용하여 프로그램의 실행을 중지하십시오.
 20. 다음 코드를 사용하여 프로그램의 실행을 중지하십시오.

ASSEMBLY SPECIFICATIONS - 1



NOTE.

Ferrite : MnZn 1.4T

PCB : FR4 _ 10.5 * 35.5 - 1.0T

PIN : 12PIN (2.54PITCH)

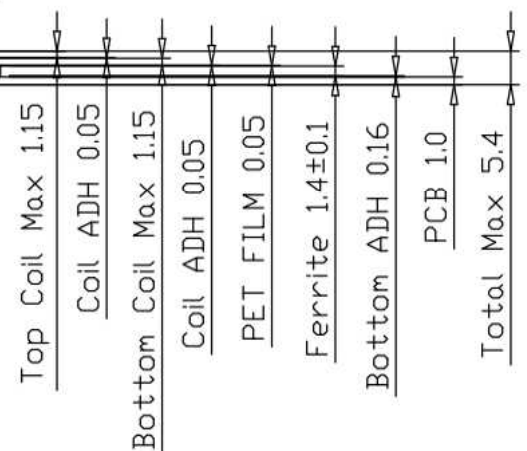
PET : 50um

Coil ADH : 50um

Bond : Epoxy Bond

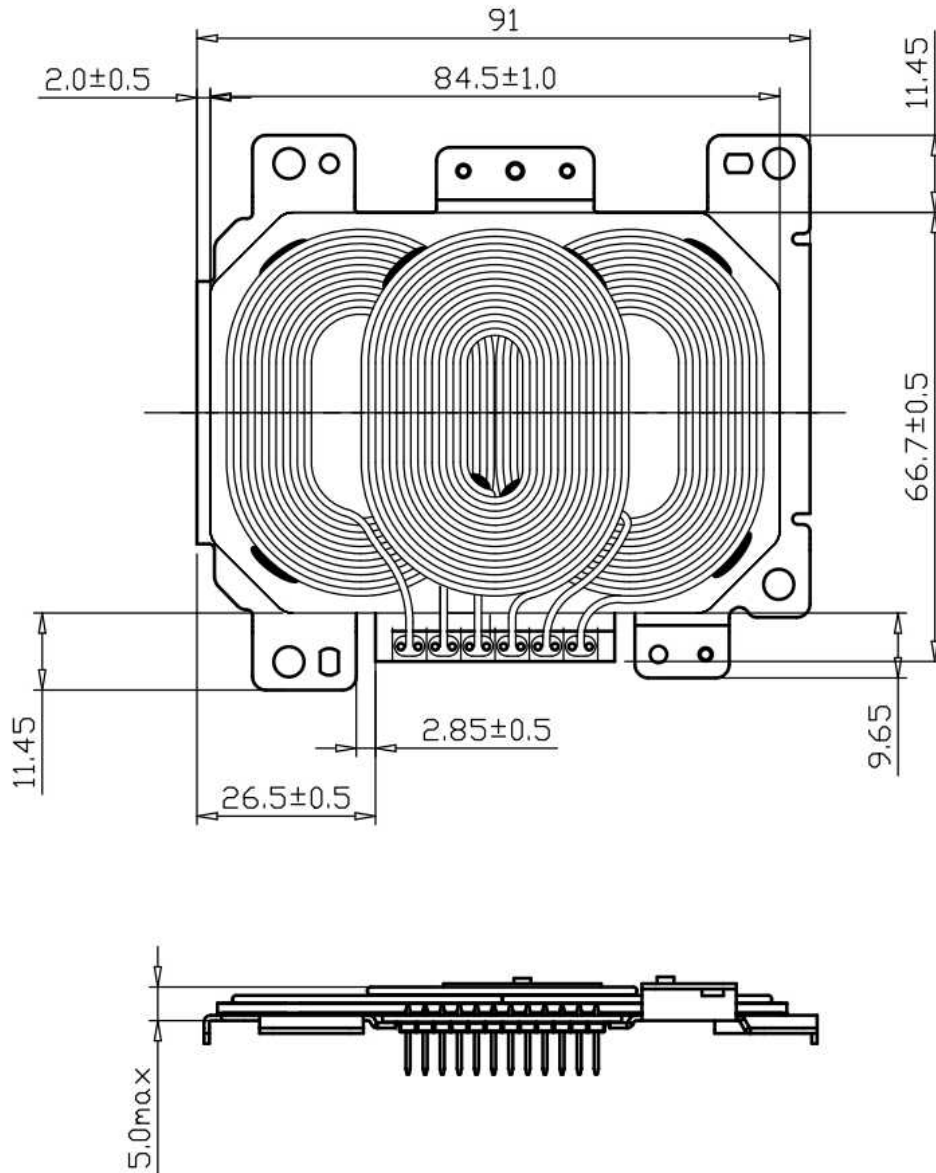
Wire : SIDE COIL(#0,#2) - 스마트본딩 Litz WIRE 0.08*105P - 12Ts

CENTER COIL(#1) - 스마트본딩 Litz WIRE 0.08*105P - 15Ts



MARK	DATE	DATAIL OF REVISION	CHECKED	APPROVED
APPROVED		J.R.SON	TODA^{ISU} TODA ISU Corporation	
CHECKED	2023.03.22	J.R.SON		
DESIGNED	2023.03.20	J.R.SON		
DRAWING	2023.03.20	J.R.SON		
SCALE	MAT'L	SIZE	TODA^{ISU} TODA ISU Corporation	
N.S				
		DWG	2.0	
		Rev.		

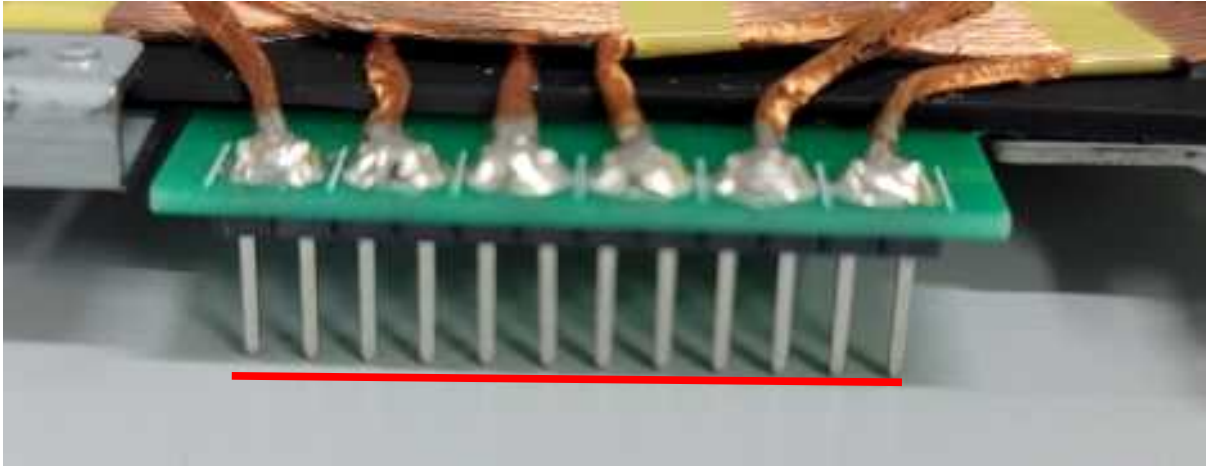
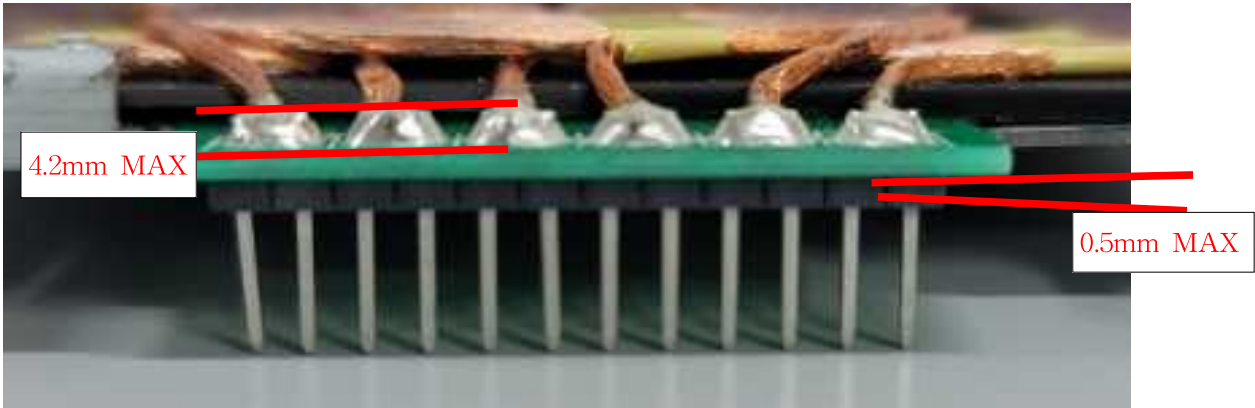
COIL BRACKET ASSEMBLY



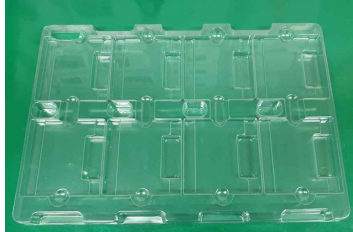
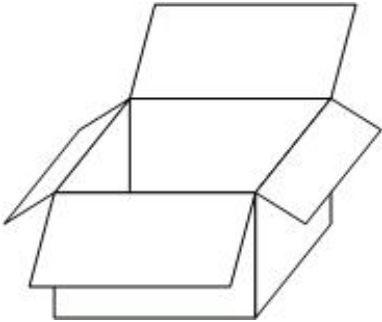
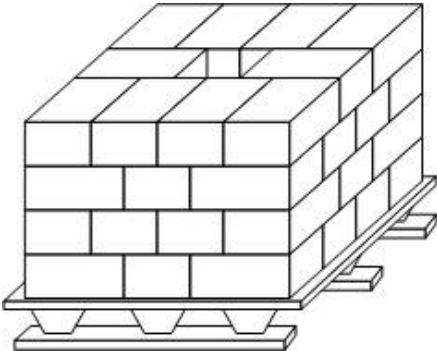
MARK	DATE	DETAIL OF REVISION	CHECKED	APPROVED
APPROVED	2023.07.30	J.R.SON	TITLE WTST-085-60-4R2 COIL BRACKET TODA ISU Corporation	
CHECKED	2023.07.30	J.R.SON		
DESIGNED	2023.03.18	K.S.LEE		
DRAWING	2023.03.18	K.S.LEE		
SCALE N.S	MAT'L	SIZE		
			DWG Rev.	2.0

Barcode Standard

HEAD PIN Appearance specification

1	Header PIN Appearance : Insulator 형상: 사각형
2	 Header PIN Line : 0.5mm MAX
3	 3.1> PCB + Header PIN _ GAP : 0.5mm MAX 3.2> PCB ~ Header PIN TOP : 4.2mm MAX

PACKING

	Detail	Note
 IN BOX	1. SIZE : 250 X 370 X 17 (mm) 2. Quantity : 8 (set/tray) 3. Weight : 890g (1 tray)	
 OUT BOX	1. SIZE : 390 X 260 X 190 (mm) 2. Quantity : 8 X 10 = 80 (pcs) (8ea / tray) 3. Weight : 9.7 kg	Material : Corrugated pad
 PALLETTE	1. SIZE : 1100 X 1100 X 150 (mm) 2. Quantity : 80 X 40 = 3,200(EA) 3. Weight : 388kg	

제조 공정도

[illegible]